# \*USAF Declass/Release Instructions On File\* Approved for Release 2001/09/04: CIA-RDP89800551R000100150011-2

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FR WLIGHT INSPECTED

ARTICLE NO. 112 (353)  DATE	7 1/2 1/2 5	
NOSE SECTION:	MECH.	INSP.
1. Plastic nose & windows free of cracks & secure.	1P	-
2. ARN/6 boot for condition & closed, ARN/6 and compass secure	P	
3. Brake fluid for proper level & cap secure.	fo JA	
4. Cabin pressure test fitting secure.	JP	i
5. Pitot cleán & secure, check AIRSPED.	1 P	
6. Nose Section clean & OK to close panel.	1/2/1	
7. Access panel installed.	1857	
8. All items cleared. CREW CHIEF:	SCA	
COCKPIT EXTERNAL:		
1. Static holes all open.	MRM	
2. Canopy external handle secure.	11/1/	
3. Lower antenna secure.	1111	
4. Windshield & canopy glass cleanliness & condition.	144	
5. All items cleared. CREW CHIEF:	1671	
COCKPIT INTERNAL:	4.2.4	
1. Canepy antenna connection secure.	1141	
2. Canopy emergency release handle locked & safetied (020 copper wire).	129/1	`
3. Canopy for proper latching with aft hatch installed.	MAL	
4. Canopy seal & connection for condition.	1141	
5. Brakes for solid feel.	1141	
6. Rudder pedals for freedom & operation of adjustment.		
7. Elevator for operation & freedom.	1941	-
8. Aileron for operation & freedom.	1171	
9. Elevator tab for operation & direction. Set to neutral.	471.1	-
10. Aileron tab for operation & direction. So to a ptoch.	11411	

COCKPIT INTERNAL: (Continued)	MacH. Lift.
11. Throttle for operation & friction look.	112/1
12. U.H.F.	MRM
13. Alchehel & rag in map case,	11911
14. Instruments for condition & cleanliness.	18
15. Autopilot:	MB
a. Power on.	KA
b. Inverter on:	KB
c. After 3 minutes turn autopilot on. (Stick should not move fore or aft.)	The 18
d. Check roll trim knob for operation. Wheel should move approximately the same distance each direction.	
e. Check yaw trim knob for operation.	R. B.
f. Check pitch trim knob for operation.	12 B
g. Check turn knob for operation.	
h. Overpower autopilot in all three axes. (Stick and rudger pedals should return smoothly to initial position	on) / 1 / 1 / 1 / 1
i. Center yaw and roll trim knobs.	72.2
j. Inverter off.	91 3
k. Power off.	M. Burin
16. Circuit breakers set or into white line.	1 P
17. Seat belt & shoulder straps for condition & operation.	2211
18. Oxygen system checked out, system pressure 1800-2000# cap installed, check out face heat.	SCA
19. Warning lights for operation.	1 P
20. Emergency battery for operation, check voltage with precision meter.	P P
21. Seat for condition & operation.	14961
22. Interior lights for operation & security.	118
23. Cockpit floor cleaned.	1941
24. All items cleared. CRIW CHIEF:	10 h

EQUIPMENT BAY:		MECH. 1:SE	<b>)</b>
1. Peacan drained, f	flushed & valve closed.	2761	
2. Cockpit regulator	rs for cleanliness & condition.	2211	
	or freedom, operation & turnbarrels safet	ies. 19/1	
	curity in hatch & bay.	19 Ch	
5. Lower hatch & sea mechanism.	al for operation & condition of latching	141	
6. OK to install lov	wer hatch.	100/	
7. Lower hatch insta	alled, latched and safetied.	1 Amb	·
•	quipment for security.	1911	
	hing mechanism for operations.	11311	
	or safetied in flight position.	1171.1	
11. OK to install up		&Cn .	
	alled, latched & safetied.	JE9	
13. All items cleare		1169	
UPPER CROTCH BAY:			
	uct connections for security.	CHR .	
	ng or anything riding structure.	1042	<del></del>
3. OK to close acce		PIR	· <del>• • • • • • • • • • • • • • • • • • •</del>
4. Access door clos		PTOR	
5. All items cleare		NOT	-
ENGINE AIR DUCTS:			
	lucts for cracks & cleanliness,	4911	شيهيد فإه محبح
	luct for cracks & cleanliness.	191.1	
3. Check inlet guid	de vanes, compressor rotor & stator blades or other evidence that the engine has	es in- 11211	
4. Run up screens r		1941	
5. All items cleare		Som	

WING:	MTCE. TJoI,
1. R/H wing for condition & cover plates secured.	144
2. R/H aileron & tab for security & condition.	
3. R/H flap for security & condition.	ZZX
4. R/H fuel caps secured.	770
5. R/H wing fillets for conditions & security.	CHA
6. R/H pcgo installed & latched.	CIA
7. L/H wing for condition & cover plates secured.	Colle
8. L/H aileron & tab for security & condition.	CIA
9. L/H flap for security & condition.	C42
10. L/H fuel caps secured.	270
11. L/H wing fillets for condition & security.	PHR
12. L/H pogo installed & latched.	for file
13. L/H & R/H outboard fuel drain valves checked for water.	PIR
14. All items cleared. CREU CHIEF:	Sich
FUSELAGE	
1. External skin for condition.	14/1
2. Ejector for condition.	1911
3. Dive flap (speed brakes) for condition & hydro leaks.	1411
. D	11/1/1
and an top of fuselage	Mary of
6 Tail pipe & turbine for cracks or evidence of foreign	2742
material passing through turbine.  7. All items cleared. CREW CHIEF:	JOH
EMPENNAGE:	11.53.5
1. Stabilizer for condition.	
2. Elevator & tab for condition & security.	
3. Elevator tab for servo action.	MAL

EMPENNAGE: (Continued)  4. Vertical stabilizer for condition.  5. Vent line open.  6. Rudder for security & condition.  7. Fillets for security & condition.  8. All items cleared. CREW CHIEF:	1141 2141 1141 1141	
5. Vent line open.  6. Rudder for security & condition.  7. Fillets for security & condition.	2141 241 241 2014	
6. Rudder for security & condition.  7. Fillets for security & condition.	44.1 44.1 20.74	
7. Fillets for security & condition.	114 1 10 74	
CREW CHIEF.	NOTA	
TAIL GEAR:		
1. Doors for security.	11.4	
	(I)K	
and the second tion of spourity	MA	
<ul> <li>Steering cables &amp; brackets for condition &amp; security.</li> <li>Strut for condition &amp; cleanliness, proper pressure is 335 psi extended or 3.75 inches compressed.</li> </ul>	12	
5. Micro switch for security & condition.	1111	
6. All items cleared. CREW CHIEF:	deta	
MAIN GEAR & WELL:		
1. Door for security & condition.	NOCK .	
2. Control cables for condition, turnbarrels safetied,	fel for	
3. Uplock release cable & spring secure.	A. A.	
4. Retract mechanism & cyl. for condition.	MA	
5. Strut for condition, proper pressure or height & cleanlines Pressure 180 psi extended or 4.5 inches compressed.	3s. 77. 79	
6. Brakes for clearance & freedom of leaks.	The state of the s	ţ
7. Tires for condition & pressure, 240 lbs.	ACA	
8. All items cleared. CREW CHIEF:	1 that	
ENGINE COMPARTMENT:		
1. Throttle for security & safety.	WITH	
2. Main & aux. fuel tank transfer valves open & safetied.	HH	
3. Manual fuel shut off open & safetied.	14-17	
4. Main fuel strainer drained or checked for water.	477	

ENGINE COMPARTMENT: (Continued)	MECH	_IVI
5. Check accumulator pressure, 800 psi.	11-17	
6. Hydro Cil tank full.	412	and the second s
7. Electrical plugs secure & safetied.	477	
8. Fuel & oil lines secure & free of leaks.	417	
9. Dive flap shut off valve safetied open.	1117	1
10. Engine side plates installed.	1112	
11. OK to install aft lower engine cover & drain lines,	111	and the second and th
12. All items cleared. CREW CHIEF:	1/1/4	Application of the second of t
SEXTANT:		manipale to the same and the sa
1. Lighting, DAY, NIGHT and OFF.	2	
2. AZIMUTH control movement, 360° both ways.		
3. HEADING control movement, four rotations.	4	
4. ELEVATION control movement, high and low, visibility of objects.		And the state of t
5. Averager time.		anagar ang angantanan da siya s s samab - s
6. Bubble diameter.	*	
7. Average error.		
8. Standard control settings.		
9. Light cone stowed. Cleanliness of optics.		
10. Leave light switch in off position. Turn off rectifier and remove plug from ship.	, j	
11. All items cleared. CREW CHIEF:		
FINAL SIGN OFF:	1	
1. Install lower engine cover fwd. section.	MA	
2. Remove pitot airspeed cover.	WA.	
3. Remove main & tail gear down lock pins.	VIA	1
4. Install scissors pin in tail gear.	V/A	

FINAL SIGN OFF: (Continued)	MECH.	INSP.
5. Fuel load 1335 Fuel added 158 Oil added		<b>59</b>
Oil level 33 Oxygen 1900		•
note 7 Nav 56		
6. Ship released for flight and property batter from 0925		
AIRCRAFT GENERAL:	DOA	
1. Elect and radio pre flight.	1694	
2. Install and check special equipment.	NA	
3. Check destr. circuit.	V//	and the second s
4. Install and connect destr.	NA	i en
5. Install upper hatch.	XM	
	Min	· · · · · · · · · · · · · · · · · · ·
	ACh	nang k malayah salas mar kadalangan kan da danagan mak di dalam
7. Pilot check cockpit.	MRM	
8. Start MA-2 on signal from pilot.	1/4	
9. Start engine.	10-14	-
10. Disconnect MA-2	1 1 1 1 6 h	
11. Close canopy.	12.11	and the state of t
12. Pull gear pins.	NC1	and the second s
13. Pull chocks.	NETA	
14. Crew Chief signal all OK on outside for take-off.	VY M	
	do	
15. Pick up Pogo's after take-off.	Tet 7h	
16. All items cleared. CREW CHIEF;		
AFTER LANDING:	1/19/2	The second secon
1. Install Pogo's.	1/1/	
2. Tow aircraft to hangar.	LA	
3. Check with pilot to assure all discrepancies have been entered on 781-2.	1694	
4. Correct discrepancies.	16%	
5. All items cleared. CRIW CHITT:	1CH	

#### ENGINE RUN DATA

DATE 50et54	TEST		ARTICLE	OPERATIO	N
START ////2	START		START	START	
STOP /1/24	STOP		_STOP	STOP	
					and the second s
TIME		·			
The same of the sa	50			er og er	
Max, 91-95 JET TEMP, Idle 200-300 Max, 500-580	ł :!			an ya ak dakanin wagangiyoka darari sala dalabak	
FUEL PRESS. Idle 15-20 Max. 8-12	7 G				
START TOTALIZER	600		·		
END TOTALIZER	568			 aparamentario alpo a constito per son il della	
ELAPSED TIME	John !				angel e managempe alle e man de el man de
LOADMETER .05-15	.05			and the second second second second	
HYDRO. PRESS. 2800-3100	3000				
QIL PRESS, 40-50	1/2				general supplier of the suppli
OIL TEMP. Idle 0-70 Max. 0-80			<u>.</u>		
ENGINE COMP. TEMP.				na wang pang sama	and the second s
AFT FUEL. TEMP.					accept programme and a set of a
PRESS. RATION 80% 1.2-1.6 Max. 2.2-2.5	1.32	•			and the second s
WING FLAPS					ettementarite erettfere elektrose et elektrose et e
DIVE BRAKES	L				agginistring against the second s
GUST	L		<b>!</b>	•	

#### FOSTFLIGHT INSPECTION

		MECH.
PREP/	ARATION:	enterior analysis property is
1.	Fire extinguisher provided.	100
2.	Landing gear downlock pins installed.	A CA
3.	Wheels chocked.	278
4.	Auxiliary static ground installed.	MAM
5.	Dive flaps closed shutoff valve "OFF".	
6.	DD Form 781 for discrepancies.	MARI
7.	Switches "OFF",	M. H
8.	Necessary fairing, panels and access doors removed or opened; closed or reinstalled upon completion of the inspection.	12.2
9.	Dust excluder plugs and wing, empennage, canopy and pitot covers installed upon completion of the inspection.	
AIRFR	AME (SYSTEM NO. 3)	
1.	Aircraft for cleanliness.	00%
2.	Wings, fuselage, empennage and control surfaces for damage; drain holes for obstruction.	
3.	Static ground wire for security and positive contact with ground.	1973
4.	Fairings, pannels, and doors for damage and insecurity.	1 city
5.	Battery area for evidence of leakage or overflow of electrolyte.	
6.	Dive brakes track for cleanliness; flaps, tracks, and linkage for damage and insecurity; actuators, lines hoses, and connections for insecurity and evidence of leakage; lines and hoses for chatting and damage.	LER
7.	Windshield and canopy for cleanliness, distortion, nicks, crazing, cracks, and scratches.	17.4.7
8.	All required Postflight entries made in applicable forms.	11/11/14
9.	Shoulder harnesses and safety belts for cleanliness.	1.199 /
LANDI	NG GEAR (SYSTEM NO. 4)	
1.	Landing gear and wheels for damage and free of mud, grass and ice.	200

		MECH.
2.	Shock struts for evidence of leakage; polished surfaces of shock struts and hydraulic pistons cleaned with cloth moistened in hydraulic fluid.	107
3.	Microswitches for cleanliness, damage, and insecurity.	May 1
4.	Doors and actuating mechanism for damage, insecurity and evidence of improper adjustment.	
5.	Wheels for evidence of overheating in area adjacent to brakes.	11/14
6.	Tires for uneven wear, cuts or blisters; free of grease or oil; slippage marks for misalignment.	A Company
7.	Accessible brake lines, hoses, connections and components for leakage with parking brakes "SET".	Day.
8.	Accessible components, lines, hoses and connections for insecurity and evidence of leakage; lines and hoses for chaffing and damage.	
9.	Brake system reservoir for required fluid level; filler plug for security.	200
HYDRA	ULIC PNEUMATIC (SYSTEM NO. 5)	
1.	Accessible components, lines, hoses, and connections for in- security and evidence of leakage; lines and hoses for chaffing and damage.	
UTILI	TY (SYSTEM NO. 6)	
1.	Oxygen system and components:	ACH
	a. Recharge to 1850 psi.	001
	b. Regulator for steady flow by turning the pressure control knob about 90 degrees clockwise.	
	c. Regulator system for leakage by ensuring that there is no audible escape of oxygen with diluter in "100% OXYGEN".	
•	d. Regulator diaphragm and mask-to-regulator tubing for leakage when a slight pressure is applied at the open end of the mask-to-regulator tube by blowing gently with diluter lever set at "100% OXYGEN"; set regulator diluter at "NORMAL OXYGEN" upon completion of tests.	al al
· ·	e. Hose from regulators for tears, holes, kinks and insecurity.	7
	f. Knurled coller and hose on regulator outlet elbows properly tightened (point to suit user's convenience).	W. Comment
**************************************	g. Flow indicators for operation. (With regulator set at "100% OXYGEN", blinker should move freely with such normal breath from mask-to-regulator tubing).	

MECH

POWER PLANT (SYSTEM NO. 7)	
<ol> <li>Exhaust cone for soot swirls and heat streaks indicating faulty fuel nozzles. (If found, inspect inner liners, nozzles and domes).</li> </ol>	
2. Turbine wheel for broken buckets.	
3. Buckets for nicks and dents beyond specified tolerance.	
4. Nozzle diaphragm blades for damage.	11/11/11
5. Engine for evidence of leakage; loose or missing nuts, bolts, studs, or clamps; proper safetying where required.	
6. Diaphragm and air seal assemblies for cracks and insecurity.	
FUEL (SYSTEM NO. 8)	
1. Exterior of aircraft for evidence of leakage.	
2. Tanks serviced; tank filler necks and cap seals for damage or excessive wear; caps for proper seating.	
OIL (SYSTEM NO. 9)	-
1. Engine reservoir for required servicing; filler cap for security.	
2. Exterior of fuselage for evidence of leakage.	4474
3. System components, lines, and hoses for damage; lines and hoses for chafing.	
AIR INDUCTION AND EXHAUST (SYSTEM NO. 11)	
1. Air intake ducts for damage and foreign material.	
2. Tailpipe for cracks and distortion beyond permissible limits; tailpipe clamp and blankets for damage and insecurity.	
ELECTRICAL (SYSTEM NO. 14)	Ext. is
1. Spare lamps and fuses available in holders.	JC11
INSTRUMENTS (SYSTEM NO. 15)	
1. Pitot head and static plates for damage and insecurity.	
2. Instruments, panels and brackets for damage and insecurity.	1/0/
3. Instrument cover glasses for cleanliness, cracks, and looseness; range, slippage and limit markings intact.	100
4. Standby compasses for discoloration of finia and evidence of bubbles.	

		MECH
r The	rmocouple leads for damage and insecurity.	MARIA_
		WB
6. Aut	opilot:	WEB
a. b.	Power on. Inverter on.	WEB
c.	After 3 minutes turn autopilot on. (Stick should not move fore or aft.)	WEB
d,	Check roll trim knob for operation. Wheel should move approximately the same distance each direction.	WEB
e.	Check yaw trim knob for operation.	WEB
f.	Check pitch trim knob for operation.	web
g.	Check turn knob for operation.	
h.	Overpower autopilot in all three axes. (Stick and rudder pedals should return smoothly to initial position.)	
	Center yaw and roll trim knobs.	
<b>.</b>	Inverter off.	
k.	Power off.	NEO
& R (S	ystem no. 16)	* **
l, Vi	sually inspect the following items;	MELLY
•	Antenna lead-in for damaged insulators, proper spacing from surrounding objects, and insecurity of connections.	a film of the
b.	Plugs for proper insertion in jacks and receptacles.	MRA
C.	to the target and covers for damage.	MA
đ	and an arrange and plugs for damage and	PLE

REMARKS:

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SIGNATURE